Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



Water Supply Outlook For Idaho





SOIL CONSERVATION SERVICE U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS IDAHO DEPARTMENT OF WATER RESOURCES

FEB. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the some location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements ore presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summory of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in o West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadwoy, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS

Alaska Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504

Arizona Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025

Colorado (N. Mex.) P. O. Box 17107, Denver, Colorado 80217

Idaho Room 345, 304 N. 8th. St., Boise, Idaho 83702

Montana P. O. Box 98, Bozeman, Montana 59715

Nevada P. O. Box 4850, Reno, Nevada 89505

Oregon 1220 S. W. Third Ave., Portland, Oregon 97204

Utah 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138

Washington 360 U. S. Court House, Spokane, Washington 99201

Wyoming P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

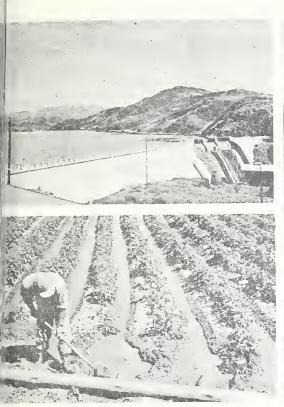
Report prepared by

JACK A. WILSON, Snow Survey Supervisor GERALD A. BEARD, Asst. Snow Survey Supervisor KATHERN G. WOOTTON, Statistical Assistant

> SOIL CONSERVATION SERVICE SNOW SURVEY SECTION ROOM 345, 304 N. 8th. ST. BOISE, IDAHO 83702



WATER SUPPLY OUTLOOK for IDAHO







GENERAL STATEMENT FOR FEBRUARY 1, 1980

Based on February 1 snow measurements, the outlook is for fair to good water supplies during the 1980 season.

Heavy snowfall and precipitation during the month of January has brightened the outlook for an improved spring runoff. Drought conditions prevailing statewide the first of the year have been significantly diminished by greatly increased snow accumulation on most watersheds in Idaho. Though improved, well below normal runoff is still in prospect for the Weiser, Clearwater and Spokane Rivers.

February 1st snow surveys show that the water content in the snow pack ranges from a low of 62% of normal on the Weiser River drainage to a high of 117% of average on the Blackfoot and Portneuf river watersheds. Seasonal streamflow forecasts range from a low of 70% of normal for the Spokane River at Post Falls to 104% of average for Montpelier Creek in southeastern Idaho.

The soil mantle at middle and high elevations is still dry and unfrozen and is expected to absorb a considerable amount of moisture when snowmelt starts.

Reservoir storage continues to be well below average statewide and will not change appreciably until the spring runoff.

Precipitation reported by the National Weather Service averaged well above normal for January in Idaho with most of the moisture coming in the first half of the month. The precipitation averaged 142% with a range from 95% at Porthill to 309% at Pocatello. For the water year the State stands at 95% of normal. Temperature averages ranged from 2° F. in southern Idaho to nearly 5° F. below normal in northern Idaho.

If normal precipitation continues, there should be sufficient runoff to supply the water needs of Idaho for the 1980 season.

Upper Columbia River Tributaries: Snow water accumulation on the Priest River and Spokane River watersheds stand at 97% and 67% of average respectively. Near normal runoff is forecast for the Priest River at 89% of average; however the Spokane is forecast for well below normal at 70%. Coeur d'Alene Lake, though very low at 38% of average, is expected to fill.

Lower Snake River Tributaries: The snowpack on the Clearwater watershed continues to be well below normal at 64% with April-September runoff forecast to be down at 71% of average. Dworshak Reservoir storage was only 23% of capacity on February 1. Snow cover on the Salmon drainage as a whole is 96% of average. The snowpack is extremely variable with the tributaries as follows: Lemhi, Pahsimeroi and Main stem below Challis 72%; Main stem above Challis 102%; Middle and South Forks 97%; and Little Salmon 79%. April-September flow at Whitebird is forecast to be 83% of average.

Middle Snake River - Northside Tributaries: Snow cover on the Lost, Wood, Boise and Payette watersheds is 98% of normal, varying from 87% on the Little Lost to 105% on the Little Wood. The Weiser River drainage has a very deficient snowpack at 62% of average. Runoff is forecast at 80-85% on the Lost Rivers, near 90% on the Wood Rivers and 90-100% on the Payette and Boise drainages. A combination of nine reservoirs on these drainages show water storage at 83% of average on February 1. Magic reservoir is very low at only 18% of normal storage and filling will depend on how runoff occurs and necessity of early season irrigation demands.

Middle Snake River Southern Tributaries: The water content of the snow pack on the Raft River is 96% of average, 107% on the Goose, Trapper and Salmon Falls watersheds, 103% on the Bruneau and 102% on the Owyhee drainages. Seasonal runoff is forecast at 83% and 84% of normal for the Oakley Reservoir Inflow and Bruneau River respectively, 93% for Salmon Falls Creek and 94% for Lake Owyhee Inflow. Reservoir contents are 118% of average for Oakley Reservoir, 77% for Salmon Falls and 117% for Owyhee Reservoir.

Upper Snake River Basin: Snow cover in the Snake Basin above Palisades, Henry's Fork and Teton River watersheds is near 82% of average, Willow Creek drainage is at 103%, and the brightest area of the state at 117% on the Blackfoot and Portneuf Rivers. Runoff is forecast at 75% for Snake at Heise, 71% for Henry's Fork and 93% for the Portneuf at Topaz. A combination of the five reservoirs, American Falls and above, have 90% of average storage and can be expected to fill.

Great Basin: The snowpack is 116% of normal on the Upper Bear River, 110% on Montpelier Creek, 96% on Mink Creek and 102% of average on the Cub River watershed. Runoff is forecast at 91% for Bear River at Harer, 100% for Cub River and 104% for Montpelier Creek near Montpelier. Bear Lake has 95% of average stored water.

VALLEY PRECIPITATION $\underline{1}/$ Division Averages and Departures

_	_	-	
l n	l n	.ch	AC
TII	T 11	. 🔾 🗓	、マン

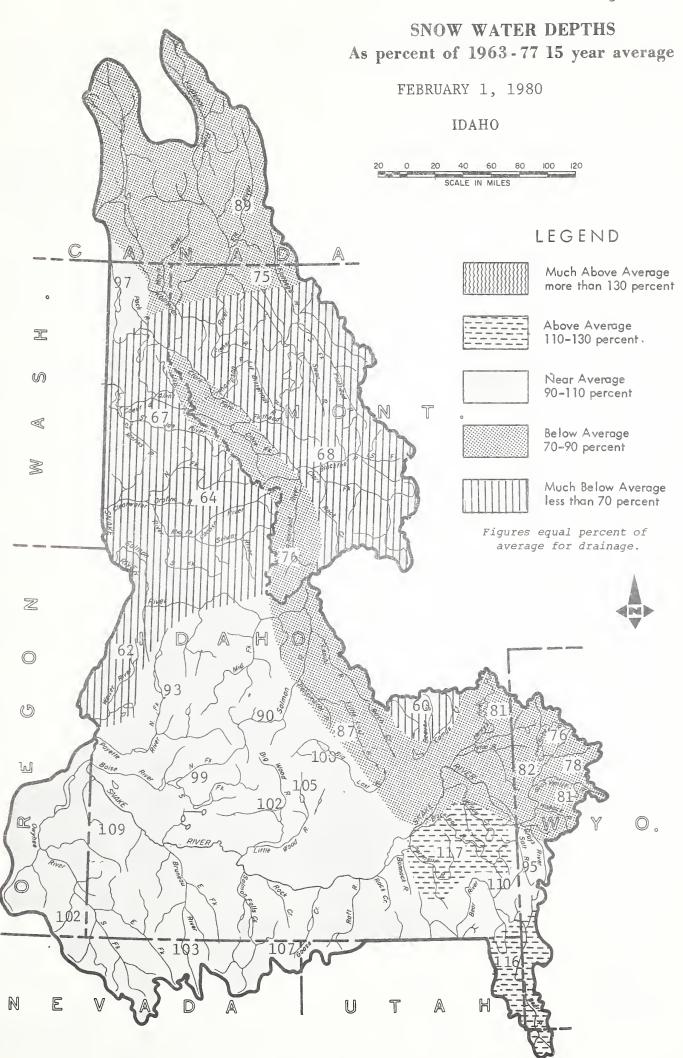
		7.			
DRAINAGE		linter		- Winter	
DIVISIONS		Departure 2/		9 - Jan. 1980	
	Observed	Departure <u>2</u> /	Observed	Departure <u>2</u> /	
Kootenai, Canada & U.	s. 2.25	-1.23	9.19	-2.61	
Flathead	3.39	+ .54	7.49	-1.72	
Clark Fork	2.25	-1.23	5.05	-1.75	
Pend Oreille-Spokane	3.85	57	11.02	-3.52	
Upper Snake	3.23	+ .60	7.36	78	
Snake River Plain	2.30	+1.07	4.75	+ .69	
Salmon-Payette-Boise	3.31	+ .01	8.56	-1.09	
Clearwater	3.61	-1.13	11.20	-3.68	
Owyhee-Malheur	1.35	13	4.58	13	

 $[\]underline{1}/$ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

²/ Departure from 15-year (1963-77) drainage division average.

COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED		SNOW WATER AS PERCENT OF: 1963-77 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River Pend Oreille River Upper Clark Fork River Flathead River Priest River	27 63 28 20 4	167 90 68 102 208	89 75 68 75 97
Spokane River	5	96	67
LOWER SNAKE RIVER BASIN			
Clearwater River Salmon River	11 13	89 179	64 96
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River Big Lost River Little Wood River Big Wood River Boise River Payette River Weiser River	1-2 4-5 4 14 12-13 12 1	186 238 269 228 187 181 118	87 100 105 102 99 93 62
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River Goose-Trapper Creek Salmon Falls Creek Bruneau River Owyhee River Jordan Creek	1 3 5 3 6 1	132 111 116 132 85 104	96 107 107 103 102 109
UPPER SNAKE RIVER BASIN			
Snake Basin - Above Palisades Res. Camas-Beaver Creeks Henrys Fork River Teton River Willow Creek Blackfoot River Portneuf River	27 2 7 8 5-9 3 4	78 91 102 75 110 103 119	82 60 81 82 103 117 117
GREAT BASIN			
Bear River - Upper Bear River - Lower Montpelier Creek Mink Creek Cub River	5 14 6 1-2 3	110 92 112 93 86	116 109 110 96 102



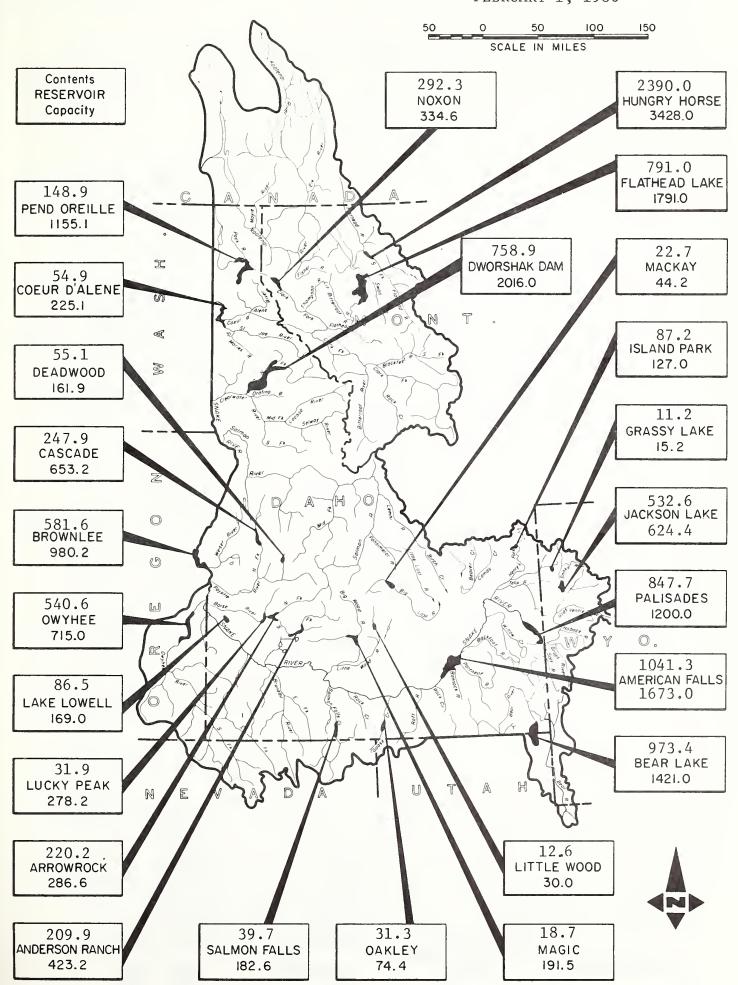
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	LICADA C. CADACITY	ME	ASURED (First of Mor	nth)
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN	SECTIONAL A.			
OTTER COLOUDIN DISTR				
Clark Fork - Pend Oreille	OCICLES AND			
Hungry Horse	3428.0	2390.0	2215.0	2341.0
Flathead	1791.0	791.0	852.2	1253.3
Pend Oreille	1155.1	148.9	158.5	320.9
Noxon	334.6	292.3	286.6	315.2
Spokane Coeur d'Alene	225 1	F/ 0	107	3/5 2
Coeur d'Alene	225.1	54.9	13.7	145.3
SNAKE BASIN				
Snake				
Jackson Lake	624.4	532.6	570.9	612.5
Palisades	1200.0	847.7	1130.0	907.8
American Falls	1673.0	1041.3	1233.7	1151.2
Island Park	127.0	87.2	102.4	105.0
Grassy Lake	15.2	11.2	12.5	10.4
Brownlee	980.2	581.6	550.4	674.4
Goose-Trapper Creeks				
Oakley	74.4	31.3	31.3	26.4
Salmon Falls Creek				
Salmon Falls	182.6	39.7	31.4	51.6
Big Lost				
Mackay	44.2	22.7	38.0	30.3
Big Wood	220			
Magic	191.5	18.7	111.0	103.6
Little Wood				
Little Wood	30.0	12.6	19.7	16.1
Fish Creek				
Carey Valley	14.4	2.0	5.3	
Boise				
Anderson Ranch	423.2	209.9	336.6	279.0
Arrowrock	286.6	220.2	227.3	254.3
Lucky Peak	278.2	31.9	66.3	85.9
Lake Lowell (Deer Flat)	169.0	86.5	129.1	122.1
<u>Owyhee</u>				
Owyhee	715.0	540.6	510.5	462.5
Payette				
Cascade	653.2	247.9	383.5	370.8
Deadwood	161.9	55.1	79.5	80.6
Weiser				
Mann Creek	11.1	3.5	3.4	
Clearwater Dworshak	2016.0	758.9	307.5	
DWOTZHRK	2010.0	130.7	307.3	
GREAT BASIN				
Bear				
Bear Lake	1421.0	973.4	1300.7	1026.4

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

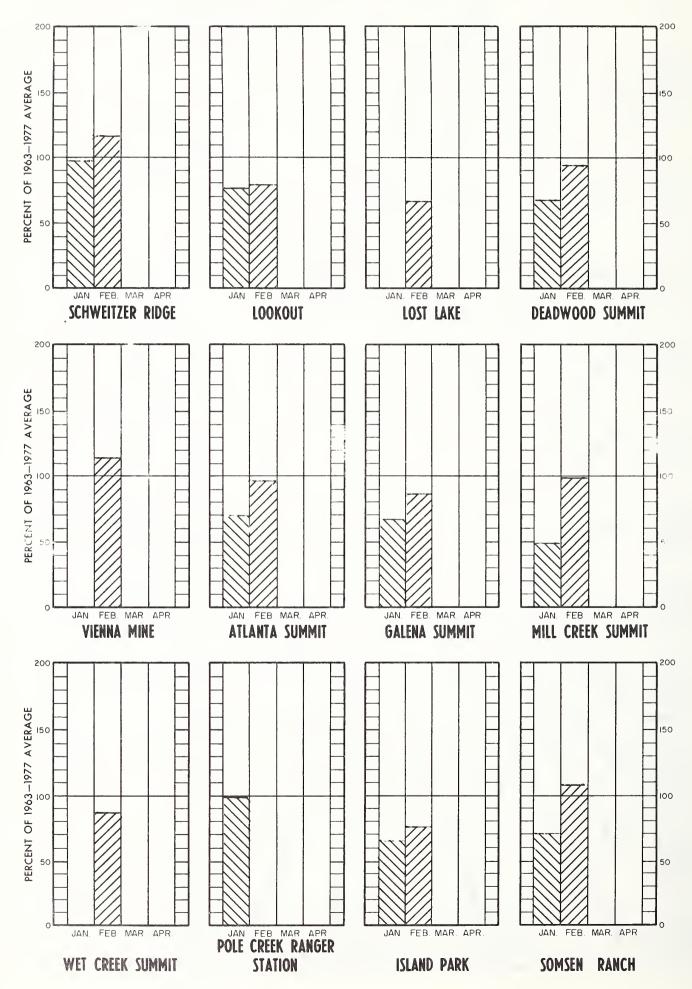
FEBRUARY 1, 1980



SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

FEBRUARY 1, 1980



STREAMFLOW FORECASTS			THIS YEAR FORECAST C FORECAST			RECORD
BASIN, STREAM and/or FORECAST PO	INT	Thousand	Percent of	FORECAST	THOUSAND	
DASIN, STREAM STREAM		Acre Feet	Average	PERIOD	Last Year	Average
	UPPER	COLUMBIA	BASIN			
KOOTENAI RIVER						
Leonia	(at)	7550	85	Apr-Sep		8858
		6580	85	Apr-Jul		7708
		5200	85	Apr-Jun		6114
PEND OREILLE RIVER						
Clark Fork River	, ,					
Whitehorse Rapids	(at)	9820	71	Apr-Sep		13781
		8920	71	Apr-Jul		12519
		7550	71	Apr-Jun		10633
Priest River						
Priest River $1/$	(at)	750	89	Apr-Jul		841
SPOKANE RIVER						
Post Falls <u>2</u> /	(at)	2050	70	Apr-Sep		2910
St. Joe River						
Calder	(at).	925	71	Apr-Sep		1309
		875	71	Apr-Jul		1238
	SNAK	E RIVER H	BASIN			
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	710	79	Apr-Sep		903
Palisades Inflow 3/	(/	3100	80	Apr-Sep		3863
Heise <u>4</u> /	(nr)	3200	75	Apr-Sep		4247
Blackfoot <u>5</u> /	(nr)	3480	76	Apr-Jul		4579
Henrys Fork						
Ashton 6/	(nr)	525	71	Apr-Sep		737
Rexburg 7/	(nr)	1090	71	Apr-Sep		1534
Portneuf River						
Topaz	(at)	100	93	Mar-Sep		108
Oakley Reservoir Inflow		30	83	Mar-Sep		36
Salmon Falls Creek						
San Jacinto	(nr)	88	93	Mar-Sep		95
	()	84	93	Mar-Jul		90
Brunoau Piwar						
Bruneau River Hot Springs	(nr)	210	84	Mar-Sep		251
, ,	/		_ •			

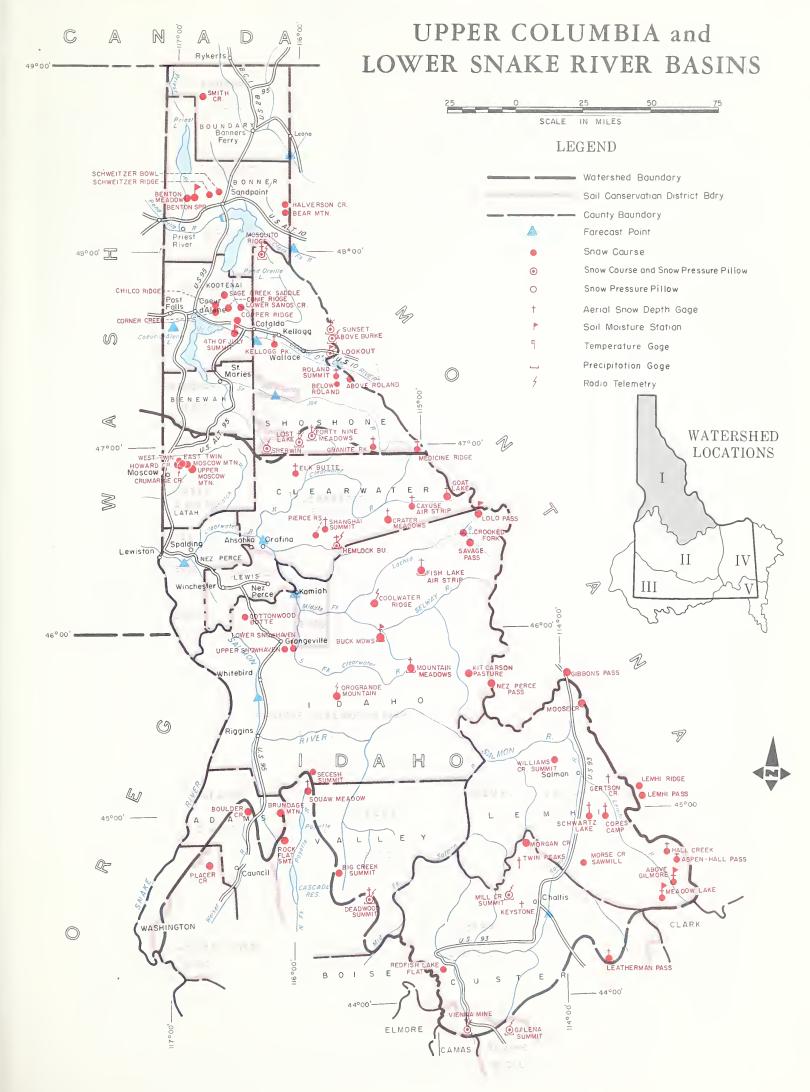
STREAMFLOW FORECASTS			THIS YEAR	PAST RECORD		
		FORE	CAST C	FORECAST	THOUSAND A	ACRE FEET
BASIN, STREAM and/or FORECAST PO	INT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +
Little Lost River						
Howe	(nr)	38	85	Apr-Sep		45
Wet Creek	(b1)	23	88	Apr-Jun		26
		35	85	Apr-Sep		41
Big Lost River						
Howell Ranch	(at)	175	79	Apr-Sep		225
		125	81	Apr-Jun		154
Mackay <u>8</u> /	(nr)	160	78	Apr-Sep		204
Big Wood River						
Magic Reservoir		285	98	Apr-Sep		319
Inflow <u>9</u> /		295	89	Mar-Jul		332
Little Wood River						
Carey	(nr)	97	91	Apr-Sep		107
		80	92	Apr-Jun		87
Boise River						
Twin Springs	(nr)	720	98	Apr-Sep		733
		660	98	Apr-Jul		676
Boise <u>10</u> /	(nr)	1620	98	Apr-Sep		1656
		1330	98	Apr-Jun		1360
		1510	98	Apr-Jul		1536
South Fork						
Anderson Dam <u>11</u> /	(at)	610	98	Apr-Sep		622
Owyhee River						
Gold Cr., Nev. <u>12</u> /	(nr)	20	85	Apr-Jul		23
Owyhee, Nev. $12/$	(nr)	64	80	Apr-Jul		80
Lake Owyhee		367	94	Apr-Sep	378	392
net inflow $\frac{13}{}$		554	96	Feb-Jul	637	578
Payette River						
Horseshoe Bend $14/$	(nr)	1700	91	Apr-Sep		1860
North Fork						
Cascade $\frac{15}{1}$	(at)	510	90	Apr-Sep		564
Banks <u>15</u> /	(nr)	655	90	Apr-Sep		726
Weiser River						
Weiser	(nr)	400	72	Mar-Sep		558

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST C	FORECAST	THOUSAND A	CRE FEET	
BASIN, STREAM and/or FORECAS	T POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +
Salmon River Whitebird	(at)	6000	83	Apr-Sep		7196
Clearwater River Spalding	(at)	6160	71	Apr-Sep		8672
	GF	REAT BASIN				
BEAR RIVER Harer	(at)	303	91	Apr-Sep		332
Montpelier Creek Montpelier	(nr)	12.9	104	Apr-Sep		12.4
Cub River Preston	(nr)	50 47	100 100	Apr-Sep Apr-Jul		50 47

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

- 1/ Observed flow corrected for storage in Priest Lake.
- $\frac{2}{2}$ Observed flow corrected for storage in Coeur d'Alene Lake.
- 3/ Corrected for storage in Jackson Lake.
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- 10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 11/ Corrected for storage in Anderson Ranch Reservoir.
- 12/ Corrected for storage in Wild Horse Reservoir.
- 13/ From WPRS records of inflow.
- 14/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 15/ Corrected for storage in Cascade Reservoir.





NO. S	TATE	NAME	SEC.	TWP.	RGE.	ELEV.	No. s	TATE	NAME	SEC.	TWP _ OR	. RGE.	EL.EV.
			LAT.	AND	LONG.					LAT.	AND	LONG	
	U.	PPER COLUMB	IA B	ASII	J				CLEARWATER RIVER				
							15D5MAP	I	Buck Meadows	26	31N	8E	5650
		KOOTENAL RIVER					15C3A	I	Cayuse Airstrip	4	38N	11E	3700
		ROOTETON RIVER					15C7S 16C16	I I	Coolwater Mountain Cottonwood Butte	32 33	33N 32N	8E	6200 5140
16A7	I	Halverson Creek	3	57N	3E	4850	15C9A	I	Crater Meadows	2	37N	9E	6100
16A1	I	Smith Creek	29	64N	3W	4800	14C10	I	Crooked Fork	27	37N	9E 14E	3800
			LECT (16C15A	Ī	Elk Butte	6	40 N	3E	5550
		PEND OREILLE - PR	(IESI I	RIVER			15C2AP	Ī	Fish Lake Airstrip	35	35N	11E	5000
16A8	I	Bear Mountain	9	57N	3E	5400	15B3ASP	I	Forty-nine Meadows	6	43N	5 E	4880
16A2	Ī	Benton Meadow	27	58N	4W	2370	14C9A	I	Goat Lake	4	38N	13E	6600
16A3	Ī	Benton Spring	30	58N	3W	4900	16C6AP	I	Hemlock Butte	7	36N	7 E	5500
16A6	Ī	Schweitzer Bowl	20	58N	2W	4500	15C8S	M	Hoodoo Basin	17	14N	27W	6000
16A5	I	Schweitzer Ridge	19	58N	2W	6200	15 C 1	M	Hoodoo Creek	16	14 N	27₩	5900
		_					14D3	Ι	Kit Carson Pasture	4	27N	16E	5020
		HAYDEN CREEK					14C5M	I	Lolo Pass	16	38N	15E	5240
16B8	I	Chilco Ridge	1.5	52 N	2 W	3650	15B14AS	I	Lost Lake	16	43N	4E	6000
16B7	I	Conie Ridge	22	52 N	21/	3900	16D7	I	Lower Snowhaven	9	29N	3E	5300
16B9	Ī	Corner Creek	22	52N	2 W	3150	15D6AP 14D1	I M	Mountain Meadows Nez Perce Pass	25	27N 1S	10E 24W	6 3 00
16B6	Ī	Sage Creek Saddle	10	52N	2 W	4100	15D4S	I	Orogrande Mountain	24	27N	24 W	7800
							15C5	Ī	Pierce Ranger Station	2	36N	5E	3170
		SPOKANE RIVER					14C6	Ī	Powell Ranger Station	33	37N	14E	4230
							14C4	Ī	Savage Pass	18	36N	15E	6170
15B8SP	Ι	Above Burke	11	48N	5 E	4100	15C4A	Ĩ	Shanghai Summit	7	37N	6E	4600
15B7	I	Above Roland	35	47N	6E	4350	16D4	I	Upper Snowhaven	8 & 9	29N	3 E	5600
15B6 16B2	I	Below Roland	3 6	46N 50N	6E 1W	3840 4800							
16B2 16B3M	I	Copper Ridge Fourth of July Summit	6	49 N	1W	3200			SALMON RIVER				
15B13A	Ī	Granite Peak	3	42N	8E	6000	13E19MA	_		1.0	1 017	0.65	0050
16B5A	Ī	Kellogg Peak	19	48N	3 E	5560	13E19MA 13E21A	I	Above Gilmore	13 6	13N 16N	26E 28E	8250
15B2MSP	Ĩ	Lookout	4	47N	6E	5120	15E21A	I	Aspen-Hall Pass Big Creek Summit	24	15N	20£ 5E	8110 6600
16B1	I	Lower Sands Creek	32	51N	11/1	3400	13E8A	I	Borah	21	10N	23E	8250
15B4ASP	I	Medicine Ridge	24	43N	10 E	6160	16D6	Ī	Brundage Mountain	6	19N	3E	7560
16A4ASP	I	Mosquito Ridge	5	54N	2 E	5110	13E17A	Ī	Copes Camp	36	18N	22E	7500
15B5A	I	Roland Summit	26	47N	6 E	5200	13E25A	Ι	Double Springs Pass	3	10N	22E	8400
16C1SP	Ι	Sherwin	28	42N	1E	3200	13D2	M	Gibbons Pass	4	2S	19W	7100
15B9ASP	I	Sunset	33	49N	5E	5600	13E20A	I	Hall Creek	1	16N	27E	7560
							13E24A	Ι	Leatherman Pass	20	9N	23E	9800
	т.	OHITED CNIATE	TO A CO	T 3. T			13E1	M	Lemhi Pass	9	10S	15W	7480
	L(OWER SNAKE	BAS.	lN			13E23	M	Lemhi Ridge	4	10S	15W	8100
							13E18MA	Ι	Meadow Lake	25	13N	26E	9200
		DALOUGE DIVED					14E1MAP	I	Mill Creek Summit	8	13N	17E	8800
		PALOUSE RIVER					13D16 14E4	I I	Moose Creek	14 32	27N 18N	21E 19E	6200 7580
16C6	I	Crumarine Creek	24	40 N	5₩	3340	13E26	I	Morgan Creek Morse Creek Sawmill	32 8	15N	23E	7580
16C3	I	East Twin	13	40 N	5 W	4050	14E7	I	Redfish Lake Flat	35	10N	13E	6550
16 C 5	I	Howard Creek	14	40 N	5 W	3500	13E16A	I	Schwartz Lake	34	18N	22E	8500
16C2	Ι	Moscow Mountain	18	40 N	41	4400	14E3A	Ī	Twin Peaks	28	15N	17E	9170
16C4P	Ι	West Twin	14	40N	5!/	4250	14F4AP	I	Vienna Mine	1	5N	13E	8950
							14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

	UPPER	COLUMBI	A RIVER	BASIN			
PEND OREILLE - PRIEST	RIVER						
Benton Meadow Benton Spring Schweitzer Bowl Schweitzer Ridge		2370 4900 4500 6200	1/30 1/30 1/31 1/31	17 36 53 92	3.9 10.9 18.5 38.4	3.2 6.2 9.5 15.6	5.5 13.9 21.8* 32.6*
SPOKANE RIVER							
Above Burke #Forty-nine Meadows Fourth of July Summit Lookout #Lost Lake Sherwin		4100 4840 3200 5120 6080 3200	1/30 1/29 1/30 1/30 1/29 1/30	37 49 15 60 87 21	10.4 12.3 4.2 20.0 25.8 5.9	14.2 12.5 9.6 14.4 19.4 11.7	16.4* 7.2 25.4 39.4* 10.7
	LOWE	R SNAKE	RIVER BA	ASIN			
CLEARWATER							
Breezy Saddle Cayuse Airstrip Crater Meadows Crooked Fork Fish Lake Airstrip Forty-nine Meadows Hemlock Butte #Hoodoo Basin #Hoodoo Creek Lolo Pass Lost Lake Pierce Ranger Station Savage Pass Shanghai Summit	Mont. Mont.	5000 3500 6100 3600 5650 4840 5500 6000 5900 5240 6080 3170 6170 4600	1/29 1/29 1/29 1/30 1/29 1/29 1/26 1/26 1/30 1/29 2/1 1/30 1/29	50 25 76 24 74 49 82 87 82 55 87 24 53 44	13.3 3.5 21.6 6.1 21.0 12.3 22.7 30.0 23.7 17.4 25.8 7.6 16.2 10.4	13.0 9.6 20.7 10.1 20.5 12.5 20.6 25.4 22.5 20.2 19.4 9.6 17.3 14.8	9.7* 31.0* 10.4* 28.8* 35.1* 36.3* 32.5* 21.8* 39.4* 8.6 19.1* 17.4*
SALMON RIVER Big Creek Summit #Boulder Creek Brundage Mountain #Deadwood Summit #Galena Summit #Gibbons Pass Mill Creek Summit Moose Creek	Mont.	6600 5500 7560 6750 8780 7100 8800 6200	2/2 1/31 1/29 1/29 1/28 1/29 1/31 2/1	84 39 83 97 57 46 57 32	27.4 11.1 29.5 32.6 15.3 12.4 17.0 7.4	13.8 9.4 14.8 14.4 7.5 12.0 8.1 9.7	26.3 18.0 32.2* 34.8* 17.5 16.7 17.1 12.6

SNOW			THIS YEAR		PAST RE	CORD
DRAINAGE BASIN and or SNOW COURSE	-		Γ	``````````````````````````````````````	Water Conte	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average /
					1	
Morgan Creek	7580	2/1	34	8.6	6.7	10.3
#Rock Flat Summit	5340	1/29	36	9.4	8.0	13.3
#Secesh Summit	6520	2/1	74	24.2	12.3	26.3*
#Squaw Meadow	5900	2/1	72	25.5	12.2	25.8*
Vienna Mine	8950	1/29	89	29.8	13.8	26.1*
MIDDLE S	SNAKE RIVI	ER BASIN	- NORT	HSIDE		
LITTLE LOST RIVER						
Hilts Creek	8000	1/29	33	8.4	4.2	
Wet Creek Summit	7760	1/29	29	7.6	4.4	8.7*
BIG LOST RIVER						
Bear Canyon	7920	1/29	52	13.3	4.9	13.0*
Copper Basin	7650	1/29	23	6.0	2.5	6.8
Fishpole Lake	9350	1/29	55	17.2	7.1	
Lost-Wood Divide	7900	1/29	58	16.5	7.0	17.0*
Stickney Mill	7450	1/29	32	7.2	3.8	6.0*
LITTLE WOOD RIVER						
#Bear Canyon	7920	1/29	52	13.3	4.9	13.0*
Garfield Ranger Station	6560	1/30	33	8.5	3.1	8.0*
Muldoon	6300	1/30	29	7.1	2.8	6.2*
Swede Peak	7640	1/30	47	13.1	4.8	12.6
BIG WOOD RIVER						
#Couch Summit	6850	1/28	53	15.1	5.4	13.7*
Dollarhide Summit	8400	1/29	61	19.1	8.8	18.3*
Galena	7300	1/28	47	11.9	6.4	14.8
Galena Summit	8780	1/28	57	15.3	7.5	17.5
Graham Ranch	6280	1/28	42	10.1	4.4	10.5
#Lost-Wood Divide	7900	1/29	58	16.5	7.0	17.0*
Mascot Mine	7760	1/29	42	11.5	5.1	9.8*
Mount Baldy	9000	2/1	57	15.6	6.1	15.2*
Soldier Ranger Station	6100	1/28	40	10.8	3.8	9.8
#Vienna Mine	8950	1/29	89	29.8	13.8	26.1*
BOISE RIVER						
Atlanta Summit	7500	1/29	78	24.4	11.8	25.2
Bad Bear	5500	1/28	40	11.1	8.3	11.0
#Bogus Basin	6340	2/2	50	15.8	10.0	17.6
Bogus Basin Road	5520	2/2	16	4.3	7.6	6.0

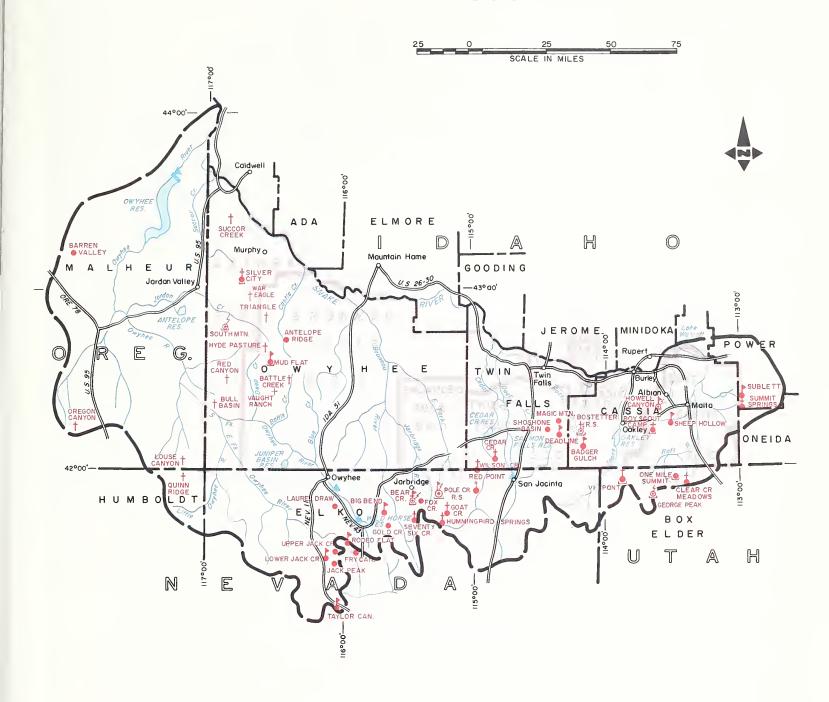
MIDDLE SNAKE RIVER BASIN NORTHSIDE IDAHO MILES SCALE IN BIG CREEK SUMMIT DEADWOOD SUMMIT LEMHJ MEAOOW LAKE IRVIEW GUARO STA CU Lawman PEAK Payette PAYETTE GEM JEFFERSON TRINITY MTN. PRAIRIE MORE ADA LITTLE CAMAS FLAT BLAIN E BENNETT CAMAS BINGHAM Mauntain Hame Richfield GOODING COLN Shashane MERICAN FALLS Ε Ε MINIDOKA POWER JE ROME Rupert CASSIA Α L L S WATERSHED LOCATIONS LEGEND I Watershed Boundary Soil Conservation District Bdry County Boundary Farecast Point II IV Snaw Caurse III • Snow Course and Snow Pressure Pillow 0 Snow Pressure Pillow Aerial Snow Depth Gage Sail Maisture Station Temperature Gage Precipitation Gage Radio Telemetry

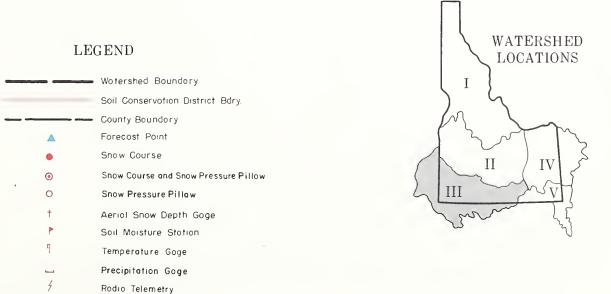
NO.	STAT	NAME	SEC.	TWP. R	GE. E	LEV.	NO.	STATE	NAME	SEC.	TWP. F	RGE.	ELEV.
	***	DIE WILLE DI	7777	TO 4 C					BOISE RIVER				
1	VIIL	DLE SNAKE RIV	VER	BAS	IN		15F4APS	Т	Atlanta Summit	23	5 N	10E	7500
		NORTHSIDI	F.				15F2	Ī	Bad Bear	35	7 N	6 E	5500
		NOTOTION	U				16F4	I	Bogus Basin Road	32	5N	3E	5520
							14F10	I	Couch Summit	9	2 N	14E	
		LITTLE LOST RIVER					16F1	I	Deadman Gulch	29	7 N	4E	5600
							15F14PS		Graham Guard Station	9	7N	10E	5690 7070
13E5M	I		27	12 N	26E	6750	15E9AP 15F1MPS	I R T	Jackson Peak Moores Creek Summit	7 19	8N 7N	9E 7E	6100
13E3	I		3	11N	26E	6600	15F6P	I	Prairie	13	2 N	7E	4800
13E6 13E4	I		31	13N 12N	26E 26E	7500	15F3A	Ī	Road Creek	5	5N	8E	5550
13E4 13E7MP	ī		17 15	8N	25E	6900 7760	15FAPSF	ì	Trinity Mountain	6	3N	9E	7780
136/11	1	Wel Cleek Summit	13	ON	<u>نار ۲</u>	7700			•				
		BIG LOST RIVER							CANYON CREEK				
13F3	1	Bear Canyon	22	5N	21E	7920	15F7	I	Bennett Mountain	7	2 S	9E	6650
13F2A	1	· ·	2.5	6N	21E	7650	15F12	I	Little Camas Flat	21	1 S	9E	4950
13FSA	1	Fishpole Lake	28	4N	22E	9350							
13F11	I	Iron Bog	23	4 N	22E	7650			PAYETTE RIVER				
13F12	1		34	4N	23E	6800		_				2.5	
14F3A	1	Lost Wood Divide	25	6N	18E	7900	16F2PS	_ I	Bogus Basin	16	5N	3E	6340
14F2A	I	3-2	9	6N	19E	7450	15E8PS		Cozy Cove	17	11N	7E	5400
13F1	1	White Knob	25	7N	23E	7700	15E3	I I	Crawford Ranger Station Deadwood Airstrip	21 8	14N 11N	4 E 7 E	4800 5440
							15E10 15E4AS	I	Deadwood Summit	23	14N	7 E	6800
		BIG WOOD RIVER					16E4	Ī	High Valley Summit	9	10N	2E	5170
							15E1	I	Lake Fork	3	18N	4E	6000
15 F 9	1	Camas Creeks Divide	11	28	9E	5720	16E1	Ī	Rock Flat Summit	1	18N	2E	5340
14F8		Dollarhide Summit	9	3N	15E	8400	15D1	Ī	Secesh Summit	4	21N	4E	6520
14F1M 14F12M		Galena Galena Summit	2	6N 6N	15E 15E	7440 8780	15D2	Ī	Squaw Meadow	17	21N	4E	5900
14F12M		Galena Summit Graham Ranch	10	5N	17E	6280	16E3	I	Tripod Summit	17	11N	3E	5200
14F7		Mascot Mine	8	4N	20E	7760			•				
14F9		Mount Baldy	26	4N	17E	9000			WEISER RIVER				
14F11		Soldier Ranger Station	19	2N		6100							
						0100	16D1P	I	Boulder Creek	16	20N	1W	5500
		LITTLE WOOD RIVER					16E2	I	Placer Creek	15 &	16 17N	3W	6000
		LITTLE WOOD RIVER					,		MANN CREEK				
13F4		Garfield Ranger Station	11	3 N	21E	6560			MANN CREEK				
1 3F 5		Muldoon	25	3 N	21E	6300	16E9	I	Mann Creek	20	15N	5W	6080
13F9R		Swede Peak	4	3 N	21E	7640	16E8	I	Sturgill Ridge	28	15N	5W	6680
							17E1	I	Robinson Creek Ridge	2	14N	6W	6220
		FISH CREEK					17E2	I	Thorson Cabin	12	14N	6W	5320
12510		Tron Mino Correl	2.0	2.17	025	6270							
13F10 13F6		I Iron Mine Creek Telfer Ranch	32 12	3 N		6370							
1310		. Terrer kanen	12	Z N	22E	6000							

LEGEND

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY:
10J7S	SNOW COURSE ANO PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10j7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RAOIOACTIVE GAGE

MIDDLE SNAKE RIVER BASIN SOUTHSIDE





N∪.	STA	TE NAME	SEC.	TWP.	RGE.	ELEV.		NO. STATE NAME		E NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	ANO	LONG.						LAT.	ANO	LONG	
	MII	DDLE SNAKE RI	VER	ВА	SIN					BRUNEAU RIVER				
		SOUTHSID	T					15H1MAP	N	Bear Creek	31	46N	58E	7800
		SOUTHSID	L				i	15H2	N	Fox Creek	33	46N	58E	6800
								15H15A	N	Hummingbird Springs	6	45N	60E	8950
		DA ET DIVER						15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330
		RAFT RIVER												
13G2AP	I	Boy Scout Camp	8	14S	24E	7760				OWYHEE RIVER				
13H2A	11	Clear Creek Meadows	26	14N	14W	9050		16 G 6	I	Antelope Ridge	20	88	1E	5900
13H4SP	IJ	George Peak	4	13N	14W	9000		18F5	0	Barren Valley	26	17S	38E	4200
13G1MP	Ī	Howell Canyon	2	138	24E	8000		16G9a	I	Battle Creek	10	118	1E	5700
13H1P	U	One Mile Summit	19	14N	14W	7330		15H4M	N	Big Bend	30	45N	56E	6700
13G5M	I	Sheep Hollow	4	14S	24E	6200		16G10a	I	Bull Basin	19	12S	5 W	5600
12G8M	I	Sublett	3	12 S	30E	6000		15H7	N	Fry Canyon	31	43N	54E	6700
12G9A	I	Summit Springs	15	13S	30E	6400		15H5	N	Gold Creek	31	45N	56E	6600
								16 G 5a	I	Hyde Pasture	SE½ 3	1 8s	2 W	5800
		GOOSE - TRAPPER CRE	EΚ					16 H 4	N	Jacks Peak	28	42N	53E	8420
								16H5	N	Laurel Draw	20	45N	53E	6700
14G3M	I	Badger Gulch	24	15S	19E	6660		17G4a	0	Louse Canyon	27	40 S	44E	6440
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500	-	16H1M	N	Lower Jack Creek	13	42N	53E	6800
13H3AP	U	Vi Pont	17	14N	17W	7670	1	16G7MP	I	Mud Flat	34	9 S	2W	5500
								17G5a	0	Oregon Canyon	9	40S	40E	6950
		SALMON FALLS CREE!	<					17H6a	N	Quinn Ridge	9	47N	41E	6300
							1	16Gllap	I	Red Canyon	32	118	4W	6650
14G5A	I	Cedar Creek	25	15S	13 E	7000		15H6M	N	Rodeo Flat	3 6	43N	53E	6800
14G4M	Ι	Deadline	25	14S	18E	6900		16F3AP	1	Silver City	6	5 S	3W	6400
15H13A	N	Goat Creek	31	46N	60E	8800	1	16G1PSR	1	South Mountain	35	7 S	5W	6340
14G2	Ι	Magic Mountain	14	14S	18E	6700		16F6a	Ι	Succor Creek	25	35	5W	6100
15H18A	N	Red Point	15	47N	61E	7940		15H9M	N	Taylor Canyon	35	39N	53E	6200
14G6	I	Shoshone Basin	24	14S	17E	5740		16G4a	I	Triangle	N': 35	7S	3W	5150
15G2A	I	Wilson Creek	24	16 S	12E	7500		16H2	N	Upper Jack Creek	9	42 N	53E	7250
								16G12a	I	Vaught Ranch	10	11S	1W	5950
								16G13a	I	War Eagle	20	5S	3W	7700

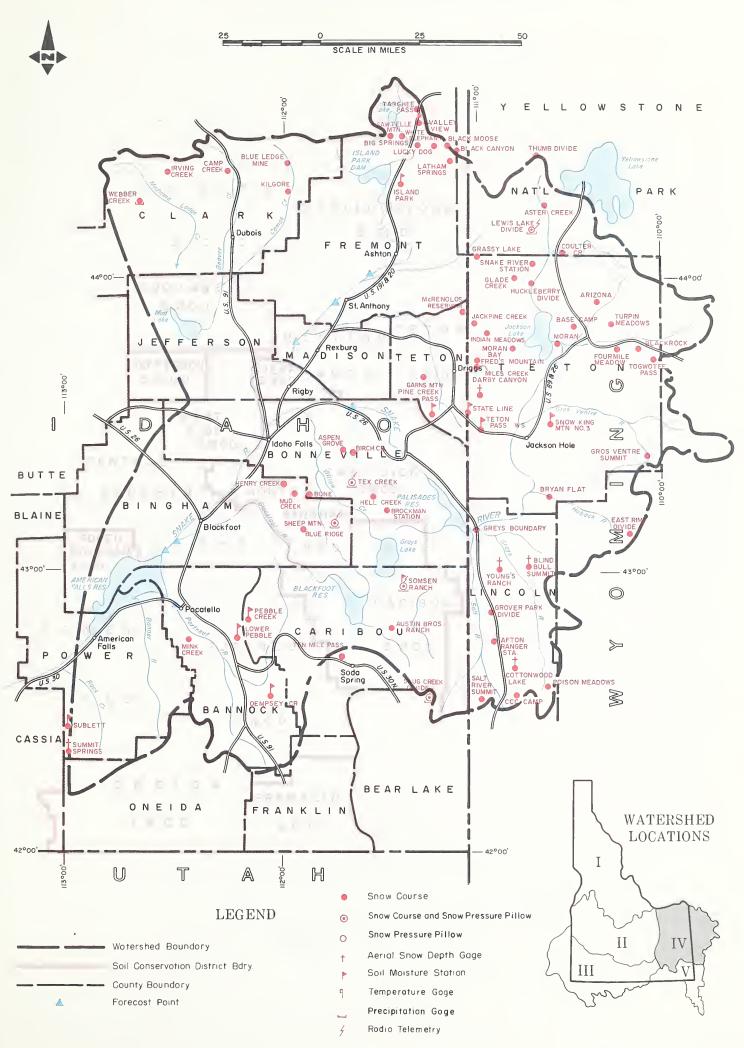
LEGEND

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

WOMZ				THIS YEAR	PAST RECORD			
DRA!NAGE BASIN and or SNOV	V COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)	
NAME		Elevation	of Survey	(Inches)	(Inches)	Last Year	Average "	
Couch Summit		6850	1/28	53	15.1	5.4	13.7*	
#Dollarhide Summit		8400	1/29	61	19.1	8.8	18.3*	
Graham Guard Station		5690	1/29	37	10.9	6.3		
Jackson Peak		7070	1/29	72	22.4	11.5	24.1*	
Moores Creek Summit		6100	1/28	69	22.8	13.0	23.7	
Prairie		4800	1/28	16	4.6	4.6	5.5	
#Soldier Ranger Statio	on.	6100	1/28	40	10.8	3.8	9.8	
Trinity Mountain		7780	1/28	90	30.6	13.8	31.1	
#Vienna Mine		8950	1/29	89	29.8	13.8	26.1*	
PAYETTE RIVER								
Bear Basin		5350	1/29	39	11.5			
#Big Creek Summit		6600	2/2	84	27.4	13.8	26.3	
Bogus Basin		6340	2/2	50	15.8	10.0	17.6	
#Brundage Mountain		7560	1/29	83	29.5	14.8	32.2*	
Cozy Cove		5400	1/29	39	11.6	7.7	13.2*	
Crawford Ranger Statio	on	4800	2/2	23	6.5	4.0	6.7	
Deadwood Airstrip		5440	1/29	38	11.8	7.4	11.7	
Deadwood Summit		7000	1/29	97	32.6	14.4	34.8*	
#Jackson Peak		7070	1/29	72	22.4	11.5	24.1*	
Lake Fork		6000	2/1	34	9.0	8.9	11.2*	
Rock Flat Summit		5340	1/29	36	9.4	8.0	13.3	
Secesh Summit		6520	2/1	74	24.2	12.3	26.3*	
Squaw Meadow		5900	2/1	72	25.5	12.2	25.8*	
WEISER RIVER								
Boulder Creek		5500	1/31	39	11.1	9.4	18.0	
MIDDL	E SNAKE	ERIVER	BASIN -	SOUTHS	IDE			
RAFT RIVER								
Howell Canyon		7980	1/30	60	17.8	13.5	18.6	
SALMON FALLS CREEK								
#Bear Creek	Nev.	7 800	1/28	47	14.0	9.9	13.6	
Deadline		6900	1/27	68	18.0	16.6	15.7	
Goat Creek	Nev.	8800	1/31	43	12.3			
Magic Mountain		6 7 00	1/27	46	14.6			
#Pole Creek Rgr. Sta.	Nev.	8330	1/31	46	14.0	11.3	14.4	
BRUNEAU RIVER								
Bear Creek	Nev.	7800	1/28	47	14.0	9.9	13.6	

SNOW				THIS YEAR		PAST RE	ECORD
DRAINAGE BASIN and or SN	OW COURSE	The second of th	Date	Snow Depth	Water Content	Water Conter	nt (inches)
NAME		Elevation	of Survey	(inches)	(Inches)	Last Year	Average '
Pole Creek Rgr. Sta. #Seventy-six Creek	Nev. Nev.	8330 7100	1/31 1/28	46 31	14.0	11.7	14.4
OWYHEE RIVER							
#Bear Creek #Seventy-six Creek South Mountain	Nev. Nev.	7800 7100 6340	1/28 1/28 1/28	47 31 34	14.0 8.8 10.8	9.9 6.2 10.4	13.6 7.8 9.9
	UPP	ER SNAKE	RIVER B	ASIN			
CAMAS-BEAVER CREEKS							
Camp Creek Kilgore		6800 6200	1/30 1/28	21 24	4.0 6.2	4.4	8.3
HENRYS FORK RIVER							
Big Springs Grassy Lake Island Park Sawtell Mountain Targhee Pass Valley View White Elephant	Wyo.	6400 7230 6290 8720 7000 6740 7700	1/28 1/29 1/28 1/28 1/29 1/29 1/28	36 56 34 68 27 33 52	10.3 16.3 9.0 22.7 6.3 8.6 16.8	12.0 24.9 10.6 14.7 7.2 8.2 10.3	14.7 24.8 12.0 22.8* 10.5* 12.5 13.2*
TETON RIVER							
Darby Canyon Freds Mountain Garns Mountain Indian Meadows Jackpine Creek McRenolds Reservoir Phillips Bench Pine Creek Pass State Line Teton Pass W.S.	Wyo. Wyo. Wyo.	8250 8150 8300 8240 7350 6800 8200 6750 6650 8400	1/31 1/29 No 1/29 1/29 1/30 1/29 1/29 1/31	49 48 measu 65 42 38 58 34 31 47	14.0 13.0 ared 20.0 11.3 9.9 15.8 8.6 8.8 12.4	14.2 13.6 32.5 21.6 14.2 12.8 23.4 12.3 12.4 21.8	15.4* 13.9* 27.4* 14.9* 13.0* 17.8* 12.0 10.0 16.8*
WILLOW CREEK							
Aspen Grove Birch Creek Blue Ridge Bone Brockman Station Hell Creek		6500 6800 6800 6200 6430 7100	2/1 2/1 2/4 2/4 2/4 2/4	35 28 42 21 27 36	11.0 6.8 12.8 5.1 7.2 9.3	8.2 7.5 10.4 5.7 8.2 10.6	8.4* 7.4* 6.0*

UPPER SNAKE RIVER BASIN

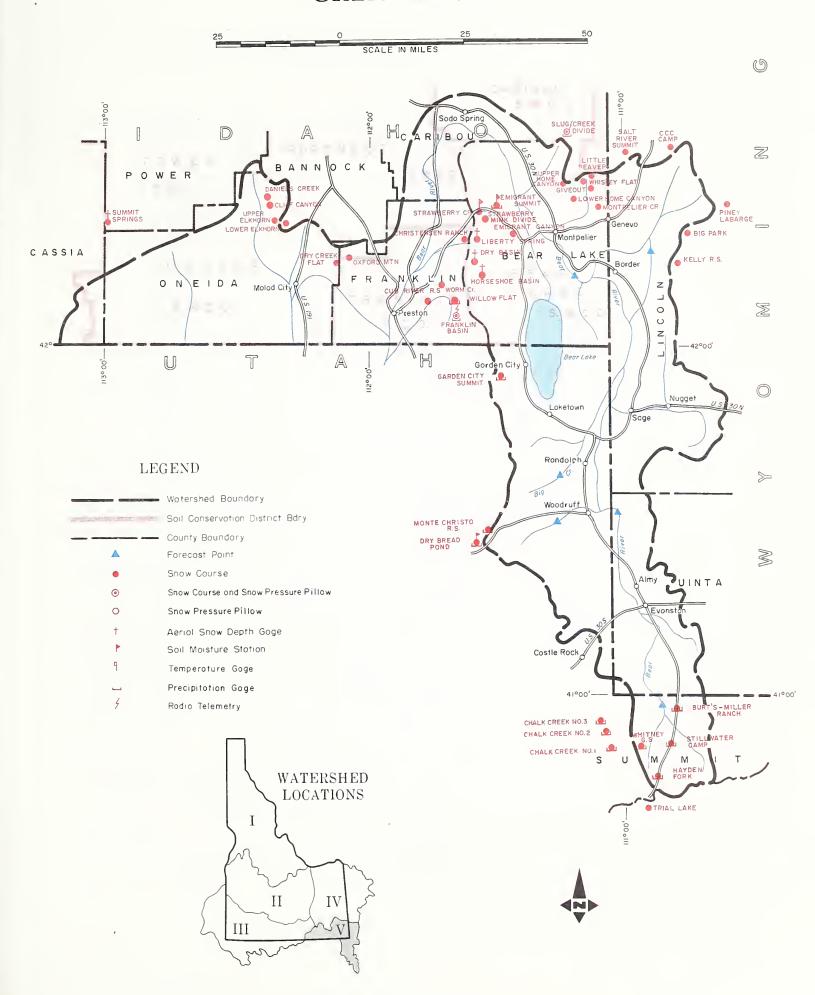


NO.	STAT	E NAME	SEC.	TWP. or AND	RGE.	ELEV.	NO.	STA	TE NAME	SEC.	TWP.	RGE.	ELEV.
	TT	PPER SNAKE I	RIVE	R RA	SIN				TETON RIVER				
10G4 10F1 10E8	Wy Wy Wy	SNAKE RIVER - WY Afton Ranger Station Arizona Aster Creek		32N 46N	118W 115W 110° 38'	6200 6850 7700	10F21 10F22 11F13 10F25 10F26 11F12	Wy Wy I Wy Wy I	Darby Canyon Freds Mountain Garns Mountain Indian Meadows Jackpine Creek McRenolds Reservoir	28 12 20 31 15	43N 44N 4N 46N 46N	118W 118W 44E 117W 118W	8250 8150 8300 8240 7350
10F2 10F7 10G2A 10F14 10G7 10G5A	Wy Wy Wy Wy Wy	Base Camp Blackrock Blind Bull Bryan Flat CCC Camp Cottonwood Lake	20 4 6 9 9	44N 34N	113W 111W 115W 115W 118W 118W	6900 8600 8750 6250 7500	10F27 11F2M 11F1M 10F13	Wy I I Wy	Miles Creek Pine Creek Pass State Line Teton Pass W. S.	13 24 32 24	7N 44N 3N 3N 41N	46E 118W 44E 46E 118W	6800 7300 6750 6650 8400
10E10 10F17MP 10F6 10E13	Wy	Coulter Creek East Rim Divide #2 Four Mile Meadows Glade Creek	44° 09 32 35 12)	110° 33' 111W 112W 116W	7600 7950 7770 7200	11E11 12E3	I	CAMAS - BEAVER CRI Blue Ledge Mine Camp Creek	27 21	13N 13N	38E 36E	6 7 00 6800
10F18 10F19 10G3	Wy Wy Wy	Greys Boundary Gros Ventre Summit Grover Park Divide	33 36 27	37N 40N 33N	118W 111W 118W	5800 8750 7500	11E12	I	Kilgore MEDICINE LODGE CR	6 REEK	12N	39 E	6200
10E14 10E9 P S 10F4MP 10F3	Wy Wy Wy Wy	Huckleberry Divide Lewis Lake Divide Moran Moran Bay	32 44° 13' 8 & 17 14	45N 45N	115W 110° 40' 114W 116W	7300 7900 6800 6800	12 E4 12 E5	I	Irving Creek Webber Creek WILLOW CREEK	20 23	13N 12N	33E 32E	7035 6700
10G6 10G8P 10E12MP 10F20M 10E7 10F9MP 10F5 10G1A	Wy Wy Wy Wy Wy Wy Wy	Poison Meadows Salt River Summit Snake River Station Snow King Mountain #3 Thumb Divide Togwotee Pass Turpin Meadows Young's Ranch	29 32 9 4 44 ⁰ 22 ¹ 29 14 26	30N 29N 48N 40N 44N 45N 34N	116W 118W 115W 117W 110° 35' 110W 112W 116W	8500 7900 6780 7600 7900 9600 6930 6530	11F10 11F3 11F17I 11F8 11F16 11F15 11F14 11F11R	I I I I I I	Aspen Grove Birch Creek Blue Ridge Bone Brockman Station Hell Creek Mud Creek Sheep Mountain	36 36 35 29 19 27 3	2N 2N 2S 1S 2S 1S 2S 2S	41E 41E 39E 40E 43E 42E 39E 41E	6500 6800 6800 6250 6430 7100 7150 6570
11E9	I	HENRYS FORK RIVE Big Springs	4	13N	44E	6400	11F5R	I	Tex Creek	36	1N	42E	6650
11E18 11E19 10E15 11E10M 11E16	I Wy I I	Black Canyon Black Moose Grassy Lake Island Park Latham Springs	11 33 6 28 9	13N 14N 48N 13N 13N	45E 45E 117W 43E 45E	7850 8125 7230 6290 7650	11F6	I	SAND CREEK Henry Creek BLACKFOOT RIVER	7	18	39E	5650
11E14 11E32 11E34 11E8M 11E36	I I I I	Lucky Dog Sawtell Mountain Targhee Pass Valley View White Elephant	2 7 32 7 17	13N 14N 16N 15N 14N	45E 43E 44E 44E 43E	6900 8720 7000 6740 7700	11G3 11G5PS 11G1MS 11G29	I I I	Austin Brothers Ranch Slug Creek Divide Somsen Ranch Ten Mile Pass	28 15 25 8	7S 10S 5S 8S	43E 44E 43E 41E	6400 7225 7000 6250
									PORTNEUF RIVER				
							12G5 12G6M 12G1 12G2M	I I I	Dempsey Creek Lower Pebble Mink Creek Pebble Creek	18 7 33 34	10S 8S 7S 7S	38E 38E 34E 37E	6100 5800 6300 6550

LEGEND

loJ7	SNOW COURSE ONLY.
IOJ7P	SNOW COURSE AND PRECIPITATION GAGE.
IOJ7M	SNOW COURSE AND SOIL MOISTURE STATION.
IOJ7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
IOJ7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
IOJ7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
1017B	RADIOACTIVE GAGE

GREAT BASIN



NO. STATE NAME

SEC. TWP. RGE. ELEV.
OR
LAT. AND LONG.

GREAT BASIN

BEAR RIVER

10G11 11H13MP 11G7 11H7P 10J6P 10J7P 10G12 11H12P 10G10 10J17P 10J28P	Wy U I U U Wy U Wy U	Big Park Dry Bread Pond Emigration Canyon (mouth) Garden City Summit Burt's-Miller Ranch Hayden Fork Kelly Ranger Station Monte Cristo R. S. Piney LaBarge Stillwater Camp Whitney G. S.	7 19 24 35 19 1 13 3 19 32 4	27N 8N 12S 14N 3N 1S 26N 8N 29N 2N 1N	117W 4E 42E 4E 10E 9E 118W 4E 114W 10E 9E	8700 8230 6500 7600 7900 9300 8200 8960 8820 8550 9300
		MONTPELIER CREEK				
11G16 11G20 11G27 11G18 11G26 11G21	I I I I	Giveout Little Beaver Lower Home Canyon Montpelier Creek Upper Home Canyon Whiskey Flat	2 26 17 22 31 26	12S 11S 12S 12S 11S 11S	455 45E 45E 45E 45E 45E	6840 6970 7500 6570 8500 6985
		MINK CREEK				
11G11 11G14A 11G6MP 11G15A 11G13A 11G9M 11G10	I I I I I	Christensen Ranch Dry Basin Emigrant Summit Horseshoe Basin Liberty Spring Strawberry Creek Strawberry Mink Divide	27 30 21 31 7 9	13S 13S 12S 13S 13S 13S	41E 42E 42E 42E 42E 41E 41E	5600 7900 7350 8000 8600 5800 6800
		CUB RIVER				
11G12 11G8S 11G4P 11G28	I I I	Cub River Ranger Station Franklin Basin Willow Flat Worm Creek	5 1 2 28	15S 16S 15S 14S	41E 41E 41E 41E	5400 8000 6100 6660
		MALAD RIVER				
12G13 12G12 12G4 12G11 12G3 12G10	I I I I I	Cliff Canyon Daniels Creek Dry Creek Flat Lower Elkhorn Oxford Mountain Upper Elkhorn	13 11 28 30 27 25	12S 12S 13S 12S 13S 12S	35E 35E 37E 36E 37E 35E	7200 6400 6480 7000 6800 7100

LEGEND

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10]7ρ	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW			THIS YEAR	<u> </u>	PAST RECORD		
DRAINAGE BASIN and/or SNOW COURSE		Date	Snow Depth	Water Content	Water Conte	nt (inches)	
NAME	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average (,	
Mud Creek	7150	2/4	47	13.7	9.3		
Sheep Mountain	6570	2/4	32	8.7	8.3	9.8*	
Tex Creek	6650	1/31	31	7.7	6.8	6.5*	
BLACKFOOT RIVER							
Austin Brothers Ranch	6400	1/30	25	8.6	8.3	6.4	
Slug Creek Divide	7230	1/30	47	13.2	11.0	11.5	
Somsen Ranch	7000	1/30	41	11.0	12.5	10.1	
PORTNEUF RIVER							
Dempsey Creek	6100	2/1	36	10.2	8.8	8.3	
Lower Pebble	5800	2/3	40	11.2	10.2	9.2*	
Mink Creek	6300	2/2	42	12.3	10.2	12.4*	
Pebble Creek	6550	2/3	44	14.5	11.2	11.2	
	GREAT	BASIN					
BEAR RIVER							
Emigrant Summit	7380	1/30	65	16.6	17.8	17.0	
Emigration Canyon	6500	1/30	36	9.2		7.5	
MONTPELIER CREEK							
Giveout	6840	1/31	38	9.6	9.0	8.5	
Little Beaver	6970	1/31	39	10.7	11.2	10.6	
Lower Home Canyon	7640	2/1	42	10.9	9.8	10.1*	
Montpelier Creek	6570	1/31	26	6.6	5.8	5.8	
Upper Home Canyon	8560	2/1	60	17.7	14.2	16.3*	
Whiskey Flat	6960	1/31	30	7.9	6.6	6.5	
MINK CREEK							
#Emigrant Summit	7380	1/30	65	16.6	17.8	17.0	
Strawberry Creek	5800	1/30	27	6.7		7.4	
CUB RIVER							
Cub River Ranger Station	5400	2/3	22	6.2	8.6	6.4	
#Franklin Basin	8000	2/3	50	18.1	18.1	17.8*	
Willow Flat	6100	2/3	36	11.6	14.8	10.9	

SNOW			THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth	Water Content	Water Content (inches)		
NAME	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average (

ADDITIONAL MEASUREMENTS RECEIVED LATE

WEBB CREEK

Kruse Meadows	4800	2/1	23	6.2	9.1	
Soldier Meadow		2/1				
Webb Creek	4720	2/1	25	6.2	9.1	

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U.S. Army Engineers
- U.S. Department of Agriculture Forest Service Agricultural Research Service Statistical Reporting Service
- U.S. Department of Commerce NOAA, National Weather Service
- U.S. Department of the Interior
 Bonneville Power Administration
 Bureau of Reclamation
 Fish and Wildlife Service
 Water Resources Division, Geological Survey
 National Park Service
 Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company Washington Water Power Company Idaho Power Company Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

304 N. 8TH ST. Boise, IDAHO 83702 Room 345

OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGRI-1 01





BELISVIELE, MARYLAND 20705 USDA NATIONAL AGRICULTURAL CHARRIE SARIAL AND AD LIBRARY

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

domestic and municipal water supply, hydro-electric power water supply for irrigation, necessary for forecasting generation, navigation, Furnishes the basic data mining and industry

"The Conservation of Water begins with the Snow Survey"